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FAO Fisheries Technical Paper No. 53

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BIBLIOGRAPHIC MATERIAL ON THE FISHES OF COLOMBIA AND NORTHWESTERN SOUTH AMERICA

RENSEIGNEMENTS BIBLIOGRAPHIQUES SUR LES POISSONS DE LA COLOMBIE ET DU NORD-OUEST DE L'AMÉRIQUE DU SUD

INFORMACION BIBLIOGRAFICA SOBRE LOS PECES DE COLOMBIA Y DE LA REGION NOROCCIDENTAL DE AMERICA DEL SUR

compiled by
compilés par
compilada por

Enrique L. Díaz

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS
ORGANISATION DES NATIONS UNIES POUR L'ALIMENTATION ET L'AGRICULTURE
ORGANIZACION DE LAS NACIONES UNIDAS PARA LA AGRICULTURA Y LA ALIMENTACION
Rome, 1965

DOCUMENTS OF THE BIOLOGY BRANCH OF FAO FISHERIES DIVISION

Documents which are not official FAO publications are issued in several series. They are given a restricted distribution and this fact should be indicated if they are cited. Most of them are prepared as working papers for meetings, or are summaries of information for use of member governments, organizations, and specialists concerned.

DOCUMENTS DE LA SOUS-DIVISION DE LA BIOLOGIE DE LA DIVISION DES PÊCHES DE LA FAO

Des documents qui ne figurent pas parmi les publications officielles de la FAO sont publiés dans diverses séries. Ils font seulement l'objet d'une distribution restreinte, aussi convient-il de le préciser lorsque ces documents sont cités. Il s'agit le plus souvent de documents de travail préparés pour des réunions, ou de résumés d'information à l'intention des gouvernements des pays membres, ainsi que des organisations et spécialistes intéressés. Ces séries sont les suivantes:

DOCUMENTOS DE LA SUBDIRECCION DE BIOLOGIA DE LA DIRECCION DE PESCA DE LA FAO

Esta Subdirección publica varias series de documentos que no pueden considerarse como publicaciones oficiales de la FAO. Todos ellos tienen distribución limitada, circunstancia que debe indicarse en el caso de ser citados. La mayoría de los títulos que figuran en dichas series son documentos de trabajo preparados para reuniones o resúmenes de información destinados a los estados miembros, organizaciones y especialistas interesados.

FAO Fisheries Report	**FIb/R (No.)**
FAO Fisheries Circular	**FIb/C (No.)**
FAO Fisheries Synopsis	**FIb/S (No.)**

Special groups of synopses are identified by symbols followed by classification numbers based on indexed code of "Current Bibliography":

SAST	Data concerning certain species and fish stocks.
MAST	Information on methods and subjects.
OT	Oceanographic data.
IT	Limnological data.
	and
CART	Information concerning fisheries and resources of certain countries and regions (FID/S).

Des catégories spéciales de synopses sont identifiées à l'aide de symboles suivis de chiffres de classification basés sur le code d'indexation de la « Current Bibliography »:

SAST	Données sur certaines espèces et populations de poissons.
MAST	Renseignements sur des méthodes et des sujets.
OT	Données océanographiques.
IT	Données limnologiques.
	et
CART	Renseignements sur les pêcheries et les ressources de certains pays et régions (FID/S).

Grupos especiales de sinopsis se distinguen con siglas seguidas por números de clasificación que se basan en las claves de los indices de la « Current Bibliography »:

SAST	Datos relativos a ciertas especies y poblaciones.
MAST	Sinopsis sobre métodos y materias.
OT	Sinopsis sobre oceanografía.
IT	Sinopsis sobre limnología.
	y
CART	Información sobre los recursos acuáticos vivos de algunos países y regiones (FID/S).

FAO Fisheries Technical Paper	**FIb/T (No.)**

Special groups of Technical Papers are identified by:

RE	Indexed lists of experts and institutions drawn from Registers maintained by Biology Branch.
CB	Lists of Periodicals, special sections of "Current Bibliography for Aquatic Sciences and Fisheries," special bibliographies and papers concerning documentation problems.
MFS	Provisional editions of "FAO Manuals in Fisheries Science."

Some documents also have another identification, if, for example, they have been contributed to a meeting for which papers have been numbered according to another system.

Des catégories spéciales de documents techniques sont identifiées à l'aide des symboles suivants:

RE	Listes indexées d'experts et institutions tirées des registres tenus à jour par la Sous-Division de la biologie.
CB	Listes de périodiques, des sections spéciales de la « Current Bibliography for Aquatic Sciences and Fisheries », des bibliographies particulières et des articles sur les problèmes de documentation.
MFS	Editions provisoires des « Manuels FAO de la science des pêches ».

Il arrive que certains documents portent d'autres numéros d'identification, comme c'est le cas s'ils ont été préparés pour une réunion dont les documents ont été marqués à l'aide d'un autre système.

Grupos especiales de documentos técnicos se identifican por las siglas siguientes:

RE	Listas índices de expertos y de instituciones tomadas de los registros que se llevan en la Subdirección de Biología.
CB	Listas de periódicos, secciones especiales de la « Current Bibliography for Aquatic Sciences and Fisheries », bibliografias especiales y trabajos relativos a los problemas de documentación.
MFS	Ediciones provisionales de los « Manuales FAO de la Ciencia de la Pesca ».

Algunos documentos tienen también otra identificación si, por ejemplo, son contribuciones a una reunión cuyos documentos han sido marcados con arreglo a otros sistemas.

BIBLIOGRAPHIC MATERIAL ON THE FISHES OF COLOMBIA AND NORTHWESTERN SOUTH AMERICA

RENSEIGNEMENTS BIBLIOGRAPHIQUES SUR LES POISSONS DE LA COLOMBIE ET DU NORD-OUEST DE L'AMERIQUE DU SUD

INFORMACION BIBLIOGRAFICA SOBRE LOS PECES DE COLOMBIA Y DE LA REGION NOROCCIDENTAL DE AMERICA DEL SUR

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Enrique L. Díaz

Inter-American Tropical Tuna Commission
Scripps Institution of Oceanography
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FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS
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ORGANIZACION DE LAS NACIONES UNIDAS PARA LA AGRICULTURA Y LA ALIMENTACION

Rome, November 1965

MR/32948

Preparation of this Paper

Information on the biology of Colombian fishes is sparse, thus sorely handicapping the student of fish and fisheries of that country. He is further handicapped by the lack of organized indices to the information that does exist in the literature. It is the purpose of this bibliography, albeit incomplete, to present an initial list of useful references on the fishes of Colombia and adjacent parts of South and Central America in the hope that fishery biologists, fishery administrators, and students of fishes may be thereby aided.

The compiler is grateful to the Food and Agriculture Organization of the United Nations which made it possible for him to obtain graduate training in the field of fisheries at the University of Michigan. He is especially indebted to Dr. Karl F. Lagler, Department of Fisheries of the University of Michigan, for the suggestion and supervision of this project as well as for the use of his personal library; to Dr. Reeve M. Bailey, Museum of Zoology of the University of Michigan, for help in studying South American fishes as well as for the use of his library; to Dr. Stanley H. Weitzman, of the Smithsonian Institution, who read and commented on the manuscript; and to Dr. John T. Greenbank, formerly of State Teachers College, Kirksville, Missouri, for valuable advice on many occasions. The author also thanks Dr. William C. Beckman, FAO Fisheries Division, Rome, Italy; Dr. Jacques Géry, Laboratoire Arago, Banyuls-sur-Mer, France; Mr. J. Cramer, Germany; Dr. Leonard P. Schultz, Smithsonian Institution; Mrs. Julia W. de Díaz, Mr. Luis C. Parra, Mr. Salomón Sánchez, and Mr. Humberto Nieto, all of Colombia, for information useful in the preparation of this bibliography.

In the preparation of this bibliography, the following sources have been searched:

(1) Indexes to the libraries of Dr. Karl F. Lagler, Dr. Reeve M. Bailey, and the Fish Division of the Museum of Zoology of the University of Michigan

(2) Dean's (1916-1923) Bibliography of Fishes

(3) Zoological Record, 1864-1957

(4) Current Bibliography for Aquatic Sciences and Fisheries, Food and Agriculture Organization (FAO) of the United Nations, volumes 1-3, 1958-1960

(5) Bibliographies contained in many of the works listed in the above sources.

The arrangement of the titles in this bibliography, which covers literature through 1961, is alphabetical by author. Where an author has more than one reference under his name, the order is chronological. A general index follows the author index.

The indexing was done from the titles only since it was not possible to obtain many of the original works. Papers not seen by the author are indicated by an asterisk. Insofar as practicable, abbreviations of journal names follow the 1962 World List of Periodicals for Aquatic Sciences and Fisheries of the Fisheries Division of the FAO.

This compilation is based on a thesis submitted by the author in 1962 to the University of Michigan in partial fulfilment of the requirements for the M.S. degree.

Préparation de ce document

On dispose de très peu de renseignements sur la biologie des poissons colombiens, ce qui constitue un grand handicap pour les chercheurs de ce pays s'intéressant aux poissons ou aux pêches. Un autre obstacle à la recherche est l'absence d'index méthodiques pour les matériaux que renferme la documentation scientifique. La présente bibliographie, quoique incomplète, a pour objet de fournir une première liste de références utiles sur les poissons de la Colombie et des secteurs limitrophes de l'Amérique du Sud et de l'Amérique centrale, dans l'espoir de venir en aide aux biologistes et administrateurs halieutiques et aux personnes étudiant les poissons.

L'auteur exprime sa gratitude envers l'Organisation des Nations Unies pour l'alimentation et l'agriculture, qui lui a permis d'acquérir à l'Université du Michigan une formation supérieure dans le domaine de l'halieutique. Il est particulièrement reconnaissant à M. Karl Lagler, Département des pêches de l'Université du Michigan, de lui avoir suggéré ce travail et d'en avoir dirigé l'exécution, ainsi que de lui avoir permis d'utiliser sa bibliothèque personnelle; à M. Reeve M. Bailey, Muséum de zoologie de l'Université du Michigan, du concours prêté dans l'étude des poissons d'Amérique du Sud ainsi que de la jouissance de sa bibliothèque; à M. Stanley H. Weitzman, de la Smithsonian Institution, qui a bien voulu lire le manuscrit et présenter des observations; et à M. John T. Greenbank, anciennement du State Teachers College de Kirksville, Missouri, des précieux conseils fournis en de nombreuses occasions. L'auteur remercie également M. William C. Beckman, Division des pêches de la FAO, Rome, Italie; M. Jacques Géry, Laboratoire Arago, Banyuls-sur-Mer, France; M. J. Cramer, Allemagne; M. Leonard P. Schultz, Smithsonian Institution; et Mme. Julia W. de Díaz, M. Luis C. Parra, M. Salomón Sánchez et M. Humberto Nieto, Colombie, pour les utiles renseignements fournis durant la préparation de la présente bibliographie.

Sources utilisées pour préparer la bibliographie :

(1) Index des bibliothèques de MM. Karl F. Lagler et Reeve M. Bailey ainsi que de la Fish Division du Muséum de zoologie de l'Université du Michigan

(2) Bibliography of Fishes (1916-1923) de Dean

(3) Zoological Record, 1864-1957

(4) Current Bibliography for Aquatic Sciences and Fisheries, Organisation des Nations Unies pour l'alimentation et l'agriculture (FAO), volumes 1-3, 1958-1960

(5) Bibliographies figurant dans nombre d'ouvrages énumérés dans les sources ci-dessus.

Dans la présente bibliographie, qui porte sur les ouvrages publiés jusqu'à 1961 inclus, les titres sont rangés dans l'ordre alphabétique des noms d'auteurs. Lorsque apparaissent plusieurs références pour le même auteur, on a adopté l'ordre chronologique. L'index des noms d'auteurs est suivi d'un index général.

Etant donné que nombre d'ouvrages n'ont pu être obtenus, l'indexation a été fait à partir des seuls titres. Les documents que l'auteur n'a pu consulter sont indiqués par un astérisque. Dans la mesure du possible, les abréviations des titres de périodiques sont conformes à la World List of Periodicals for Aquatic Sciences and Fisheries (1962) de la Division des pêches de la FAO.

Le présent travail est basé sur une thèse présentée par l'auteur en 1962 à l'Université du Michigan et qui figurait parmi les tâches requises pour l'obtention du diplôme de Master of Science.

Preparación de este documento

La información de que se dispone sobre la biología de los peces colombianos es escasa, lo que obstaculiza grandemente la labor del estudioso de los peces y de las pesquerías de dicho país. Impide aún más la realización de tal labor la falta de índices organizados de la información que existe en la literatura sobre la materia. Con esta bibliografía, que no es completa, se trata de presentar una lista inicial de referencias útiles sobre los peces de Colombia y partes adyacentes de América Central y del Sur, con la esperanza de que pueda servir de ayuda a los biólogos de pesca, administradores pesqueros y estudiosos de los peces.

El compilador agradece a la Organización de las Naciones Unidas para la Agricultura y la Alimentación el haberse podido graduar en pesca en la Universidad de Michigan. Tiene una especial deuda de gratitud con el Dr. Karl F. Lagler, del Departamento de Pesca de la Universidad de Michigan por haberle sugerido y supervisado este trabajo, así como por haberle permitido usar su

biblioteca; con el Dr. Reeve M. Bailey, del Museo Zoológico de la Universidad de Michigan, por la ayuda prestada para estudiar la ictiología sudamericana así como por haberle permitido hacer uso de su biblioteca; con el Dr. Stanley H. Weitzman, de la Smithsonian Institution por haber leido y hecho indicaciones acerca del original; y con el Dr. John T. Greenbank, perteneciente en otros tiempos al State Teachers College, Kirksville, Missouri, por haberlo asesorado valiosamente en muchas circunstancias. El autor dá también las gracias a las siguientes personas por haberle proporcionado útil información para la preparación de esta bibliografía: Dr. William C. Beckman, Dirección de Pesca de la FAO, Roma, Italia; Dr. Jaques Géry, Laboratorio Arago, Banyuls-sur-Mer, Francia; Sr. J. Cramer, Alemania; Dr. Leonard P. Schultz, Smithsonian Institution; y por el mismo motivo a los colombianos Sra. Julia W. de Díaz; Sr. Luis C. Parra; Sr. Salomón Sánchez, y Sr. Humberto Nieto.

Para preparar esta bibliografía, se han investigado las fuentes siguientes :

(1) Ficheros de las bibliotecas del Dr. Karl F. Lagler, Dr. Reeve M. Bailey, y de la Dirección de Pesca del Museo Zoológico de la Universidad de Michigan

(2) Bibliography of Fishes (1916-1923) de Dean

(3) Zoological Record, de 1864 a 1957

(4) Current Bibliography for Aquatic Sciences and Fisheries, Food and Agriculture Organisation (FAO) of the United Nations, volúmenes 1-3, 1958-1960

(5) Las bibliografías que figuran en muchas de las obras enumeradas en las fuentes anteriormente mencionadas.

La bibliografía, que abarca la literatura aparecida hasta 1961, se ha preparado por orden alfabético de autores. Cuando bajo el nombre de un autor aparecen dos o más libros, el orden es cronológico. Al índice de autores sigue un índice general.

Los índices se hicieron a base de los títulos únicamente, ya que no se pudieron obtener muchas de las obras originales. Aquellos trabajosque el autor de este trabajo no pudo consultar, se indican con un asterisco. Siempre que ha sido posible, las abreviaturas de los títulos de publicaciones periódicas siguen a la World List of Periodicals for Aquatic Sciences and Fisheries (1962) de la Dirección de Pesca de la FAO.

Esta compilación se basa en la tesis que el autor presentó en 1962 en la Universidad de Michigan, como trabajo parcial para la obtención del título de Master of Science.

Distribution :

FAO Fisheries Division
FAO Fisheries Officers
Author
Selectors 2, 5 and 7

"Current Bibliography" entry :

Díaz, E.L. (Comp.) (1965) MF
FAO Fish.tech.Pap., (53):72 p.
Bibliographic materials on the fishes of Colombia and northwestern South America
Renseignements bibliographiques sur les poissons de la Colombie et du nord-ouest de l'Amérique du Sud
Información bibliográfica sobre los peces de Colombia y de la región noroccidental de América del Sur

Serially numbered list of references arranged in alphabetic order of author's names with author and a general subject index.

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Die Gattung Mylossoma Eigenmann.

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Ichthyologische Mitteilung.
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Beschreibung dreier neuer Fische der Familie Cichlidae aus Südamerika.

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Colombia. Basic fishing regulations implemented.

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Tiempo, Bogotá, Apr. 8/61
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